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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841,373	04/24/2001	Lenny Low	PA-Y0049	5868
75	90 09/09/2003			
Joyce Kosinski			EXAMINER	
655 Deep Valle	d Communications, Ltd. y Drive, Suite 303		PATEL, NIHIR B	
Rolling Hills Estates, CA 90274			ART UNIT	PAPER NUMBER
			3743	<u> </u>
			DATE MAILED: 09/09/2003	
				10

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
066 4-45 0	09/841,373	LOW ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nihir Patel	3743				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON!	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	<u></u> .					
2a)☐ This action is FINAL . 2b)☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	Ex parte Quayre, 1955 C.D. 11,	433 O.G. 210.				
4) Claim(s) is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.)☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	r					
9) The specification is objected to by the Examine		aminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
is:_a) approved_b)disapproved_by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
	- Li A - B-B-B-A					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 119	(e) (to a provisional application).				
a) ☐ The translation of the foreign language pro	ovisional application has been re tic priority under 35 U.S.C. §§ 12	eceived. 20 and/or 121.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informa	ary (PTO-413) Paper No(s) Il Patent Application (PTO-152)				
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Esposto US Patent No. 5,743,325 in view of Yee US Patent No. 6,478,258.

Esposto discloses the applicant's invention as claimed with the exception of providing one or more heat pipes that cross couple opposite facing payload radiators.

Yee discloses spacecraft multiple loop heat pipe thermal system for internal equipment panel applications that does provide one or more heat pipes that cross couple opposite facing payload radiators (see column 2 lines 25-30). Therefore it would be obvious to modify Esposto's

invention by providing one or more heat pipes that cross couple opposite facing payload radiators in order to increase the cooling process.

Claims 3, 4, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Esposto US Patent No. 5,743,325 as applied to claims 1 and 2 above, and further in view of Caplin US Patent No. 5,806,800.

Esposto discloses the applicant's invention as claimed with the exception of providing a body and a plurality of solar arrays.

Caplin discloses a dual function deployable radiator cover that does provide a body 12 (see figure 1) and a plurality of solar arrays 18 (see figure 1). Therefore it would be obvious to

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modify Esposto's invention by providing a body and a plurality of solar arrays in order for the invention to function properly.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Nihir Patel whose telephone number is (703) 306-3463. The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm. If attempts to reach the examiner by telephone are unsuccessful the examiner supervisor Henry Bennett can be reached at (703) 308-0101.

NP

August 26, 2003

Henry Bennett

Supervisor Patent Examiner

Group 3700